

Atty. Docket No.:

H0004788

(1139.1138101)

Serial No.:

10/607,758

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

Applicant: Jae-Hyun Ryou et al.

Filing Date:

June 27, 2003

Group Art:

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	US2001/0004414 A1	06/21/2001	Kuhn et al.			
	US2002/0154675 A1	10/24/2002	Deng et al.			
	US2003/0072526 A1	04/17/2003	Kathman et al.			
	4,317,085	02/23/1982	Brunham et al.			
	4,466,694	08/21/1984	MacDonald			
	4,660,207	04/21/1987	Svilans			
	4,675,058	06/23/1987	Plaster			
	4,784,722	11/15/1988	Liau et al.			
	4,885,592	12/05/1989	Kofol et al.			
	4,901,327	02/13/1990	Bradley			
	4,943,970	07/24/1990	Bradley			
	4,956,844	09/11/1990	Goodhue et al.			
	5,031,187	07/09/1991	Orenstein et al.			
	5,052,016	09/24/1991	Mahbobzadeh			
	5,056,098	10/08/1991	Anthony et al.			
	5,062,115	10/29/1991	Thornton			
	5,068,869	11/26/1991	Wang et al.			
	5,079,774	01/07/1992	Mendez et al.			
	5,115,442	05/19/1992	Lee et al.			
	5,117,469	05/26/1992	Cheung et al.			
	5,140,605	08/18/1992	Paoli et al.			
	5,157,537	10/20/1992	Rosenblatt et al.			
	5,158,908	10/27/1992	Blonder et al.			
	5,212,706	05/18/1993	Jain			

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Examiner. Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	5,216,263	06/01/1993	Paoli			
	5,216,680	06/01/1993	Magnusson et al.			
	5,237,581	08/17/1993	Asada et al.			
	5,245,622	09/14/1993	Jewell et al.			
	5,258,990	11/02/1993	Olbright et al.			
	5,262,360	11/16/1993	Holonyak, Jr. et al.			
	5,285,466	02/08/1994	Tabatabaie			
	5,293,392	03/08/1994	Shieh et al.			
	5,317,170	05/31/1994	Paoli			
	5,317,587	05/31/1994	Ackley et al.			
	5,325,386	06/28/1994	Jewell et al.			
	5,331,654	07/19/1994	Jewell et al.			
	5,337,074	08/09/1994	Thornton			
	5,337,183	08/09/1994	Rosenblatt et al.			
	5,349,599	09/20/1994	Larkins			
	5,351,256	09/27/1994	Schneider et al.			
	5,359,447	10/25/1994	Hahn et al.			
	5,359,618	10/25/1994	Lebby et al.			
	5,363,397	11/08/1994	Collins et al.			
	5,373,520	12/13/1994	Shoji et al.			
	5,373,522	12/13/1994	Holonyak, Jr., et al.			
	5,376,580	12/27/1994	Kish et al.			
	5,386,426	01/31/1995	Stephens			
	5,390,209	02/14/1995	Vakhshoori			
	5,396,508	03/17/1995	Bour et al.			

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	5,404,373	04/04/1995	Cheng			
	5,412,678	05/02/1995	Treat et al.			
	5,412,680	05/02/1995	Swirhum et al.			
	5,416,044	05/16/1995	Chino et al.			
	5,428,634	06/27/1995	Bryan et al.			
	5,438,584	08/01/1995	Paoli et al.			
	5,446,754	08/29/1995	Jewell et al.			
	5,465,263	11/07/1995	Bour et al.			
	5,475,701	12/12/1995	Hibbs-Brenner			
	5,493,577	02/1996	Choquette et al.			
	5,497,390	03/05/1996	Tanaka et al.			
	5,513,202	04/30/1996	Kobayashi et al.			
	5,530,715	06/25/1996	Shieh et al.			
	5,555,255	09/10/1996	Kock et al.			
	5,557,626	09/17/1996	Grodinski et al.			
	5,561,683	10/01/1996	Kwon			
	5,567,980	10/22/1996	Holonyak, Jr. et al.			
	5,568,498	10/22/1996	Nilsson			
	5,568,499	10/22/1996	Lear			
	5,574,738	11/12/1996	Morgan			
	5,581,571	12/1996	Holonyak, Jr. et al.			
	5,586,131	12/17/1996	Ono et al.			
	5,590,145	12/31/1996	Nitta			
	5,598,300	01/28/1997	Magnusson et al.			
	5,606,572	02/25/1997	Swirhun et al.			

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	5,625,729	04/29/1997	Brown			
	5,642,376	06/24/1997	Olbright et al.			
	5,645,462	07/08/1997	Banno et al.			
	5,646,978	07/08/1997	Kem et al.			
	5,648,978	07/15/1997	Sakata			
	5,679,963	10/21/1997	Klem et al.			
	5,692,083	11/25/1997	Bennett			
	5,696,023	12/09/1997	Holonyak, Jr., et al.			
	5,699,373	12/16/1997	Uchida et al.			
	5,712,188	01/27/1998	Chu et al.			
	5,726,805	03/10/1998	Kaushik, et al.			
	5,727,013	03/10/1988	Botez et al.			
	5,727,014	03/10/1988	Wang et al.			
	5,774,487	06/30/1998	Morgan			
	5,778,018	07/07/1998	Yoshikawa et al.			
	5,781,575	07/14/1998	Nilsson			
	5,784,399	07/21/1998	Sun			
	4,790,733	08/04/1998	Smith et al.			
	5,805,624	09/08/1998	Yang et al.			
	5,818,066	10/06/1998	Duboz			
	5,828,684	10/27/1998	Van de Walle			
	5,838,705	11/17/1998	Shieh et al.			
	5,838,715	11/17/1998	Corzine et al.			
	5,892,784	04/06/1999	Tan et al.			
	5,892,787	04/06/1999	Tan et al.			

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	5,896,408	04/20/1999	Corzine et al.			
	5,901,166	05/04/1999	Nitta et al.			
	5,903,588	05/1999	Guenter et al.			
	5,903,589	05/1999	Jewell			
	5,903,590	05/11/1999	Hadley et al.			
	5,908,408	06/1999	McGary et al.			
	5,936,266	08/10/1999	Holonyak, Jr. et al.			
	5,940,422	08/17/1999	Johnson			
	5,953,362	09/14/1999	Pamulapati et al.			
	5,978,401	11/02/1999	Morgan			
	5,978,408	11/1999	Thornton			
	5,995,531	11/30/1999	Gaw et al.			
	6,002,705	12/14/1999	Thornton			
	6,008,675	12/28/1999	Handa			
	6,014,395	01/11/2000	Jewell			
	6,043,104	03/28/2000	Uchida et al.			
	6,046,065	04/04/2000	Goldstein et al.			
	6,055,262	04/25/2000	Cox et al.			
	6,052,398	04/18/2003	Brillouet et al.			
	6,060,743	05/09/2000	Sugiyama et al.			
	6,078,601	06/20/2000	Smith			
	6,086,263	07/11/2000	Selli et al.			
	6,133,590	10/17/2000	Ashley et al.			
	6,144,682	11/07/2000	Sun			
	6,154,480	11/28/2000	Magnusson et al.			

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	6,185,241	02/06/2001	Sun			
	6,191,890	02/20/2001	Baets et al			
	6,208,681 B1	03/27/2001	Thorton			
	6,212,312	04/03/2001	Grann et al			
	6,238,944 B1	05/29/2001	Floyd			
	6,269,109 B1	07/31/2001	Jewell			
	6,297,068	10/02/2001	Thornton			
	6,302,596	10/16/2001	Cohen et al.			
	6,339,496	01/15/2002	Koley et al.			
	6,369,403	04/09/2002	Holonyak, Jr.			
	6,372,533 B2	04/16/2002	Jayaraman et al.			
	6,392,257	05/21/2002	Ramdani et al.			
	6,410,941	06/25/2002	Taylor et al.			
	6,411,638	06/25/2002	Johnson et al.			
	6,427,066	07/30/2002	Grube			
	6,455,879	09/24/2002	Ashley et al.			
	6,459,709	10/01/2002	Lo et al.			
	6,459,713	10/01/2002	Jewell			
	6,462,360	10/08/2002	Higgins, Jr. et al.			
	6,472,694	10/29/2002	Wilson et al.			
	6,477,285	11/05/2002	Shanley			
	6,487,230	11/26/2002	Boucart et al.			
	6,487,231	11/26/2002	Boucart et al.			
	6,490,311	12/03/2002	Boucart et al.			
	6,493,371	12/10/2002	Boucart et al.			

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
TN	6,493,372	12/10/2002	Boucart et al.			
	6,493,373	12/10/2002	Boucart et al.			
	6,496,621	12/17/2002	Kathman et al.			
	6,498,358	12/24/2002	Lach et al.			
	6,501,973	12/31/2002	Foley et al.			
	6,515,308	02/04/2003	Kneissl et al.			
	6,535,541	03/18/2003	Boucart et al.			
	6,536,959	03/25/2003	Kuhn et al.			
	6,542,531	04/01/2003	Sirbu et al.			
	6,567,435	05/20/2003	Scott et al.			

FOREIGN PATENT DOCUMENTS


Examiner Initial	Document No.	Date	Country	Translation Yes No
TN	✓ JP 60123084	01/07/1985	JP	Abstract
	✓ EP 0288184 A2	10/26/1988	EP	
	✓ JP 02054981	02/23/1990	JP	Abstract
	✓ JP 5299779	11/12/1993	JP	Abstract
	✓ DE 4240706 A1	06/09/1994	DE	Abstract
	✓ EP 0776076 A1	05/28/1997	EP	Abstract
	✓ WO 98/57402	12/17/1998	PCT	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TN	✓	Banwell et al., "VCSE Laser Transmitters for Parallel Data Links", <u>IEEE Journal of Quantum Electronics</u> , Vol. 29, No. 2, February 1993, pp. 635-644.
	✓	Bowers et al., "Fused Vertical Cavity Lasers With Oxide Aperture", Final report for MICRO

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	Filing Date: June 27, 2003	Group Art: unknown 2829

TN	project 96-042, Industrial Sponsor: Hewlett Packard, 4 pages, 1996-97.
✓	Catchmark et al., "High Temperature CW Operation of Vertical Cavity Top Surface-Emitting Lasers", CLEO 1993, p. 138.
✓	Chemla et al., "Nonlinear Optical Properties of Semiconductor Quantum Wells", <u>Optical Nonlinearities and Instabilities in Semiconductors</u> , Academic Press, Inc., Copyright 1988, pp. 83-120.
✓	Choe, et al., "Lateral oxidation of AIAs layers at elevated water vapour pressure using a closed-chamber system," Letter to the Editor, Semiconductor Science Technology, 15, pp. L35-L38, August 2000.
✓	Choa et al., "High-Speed Modulation of Vertical-Cavity Surface-Emitting Lasers", <u>IEEE Photonics Technology Letter</u> , Vol. 3, No. 8, August 1991, pp. 697-699.
✓	Choquette et al., "High Single Mode Operation from Hybrid Ion Implanted/Selectively Oxidized VCSELs", 200 IEEE 17th International Semiconductor Laser Conference, Monterrey, CA pages 59-60.
✓	Choquette et al., "Lithographically-Defined Gain Apertures Within Selectively Oxidized VCSELs", paper CtuL6, Conference on Lasers and Electro-Optics, San Francisco, California (2000).
✓	Choquette, et al., "VCSELs in information systems: 10Gbps ⁻¹ oxide VCSELs for data communication", Optics In Information Systems, Vol. 12, No. 1, page 5, SPIE International Technical Group Newsletter, April 2001.
/	Chua, et al., "Low-Threshold 1.57- μ m VC-SEL's Using Strain-Compensated Quantum Wells and Oxide/Metal Backmirror," IEEE Photonics Technology Letters, Vol 7, No. 5, pp. 444-446, May 1995.
✓	Chua, et al., "Planar Laterally Oxidized Vertical-Cavity Lasers for Low-Threshold High-Density Top-Surface-Emitting Arrays," IEEE Photonics Technology Letters, Vol. 9, No. 8, pp. 1060-1062, August 1997.
/	Cox, J. A., et al., "Guided Mode Grating Resonant Filters for VCSEL Applications", <u>Proceedings of the SPIE</u> , The International Society for Optical Engineering, Diffractive and Holographic Device Technologies and Applications V, San Jose, California, January 28-29, 1998, Vol. 3291, pages 70-71.
✓	Farrier, Robert G., "Parametric control for wafer fabrication: New CIM techniques for data analysis," Solid State Technology, pp. 99-105, September 1997.
/	Fushimi, et al., "Degradation Mechanism in Carbon-doped GaAs Minority-carrier Injection Devices," 34 th Annual IRPS Proceedings, Dallas, TX., April 29-May 2, 1996, 8 pages.
/	G. G. Ortiz, et al., "Monolithic Integration of In _{0.2} Ga _{0.8} As Vertical Cavity Surface-Emitting Lasers with Resonance-Enhanced Quantum Well Photodetectors", <u>Electronics Letters</u> , Vol. 32, No. 13, June 20, 1996, pp. 1205-1207.
✓	G. Shtengel et al., "High-Speed Vertical-Cavity Surface-Emitting Lasers", <u>Photon. Tech. Lett.</u> , Vol.

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	Filing Date: June 27, 2003	Group Art: unknown 2822

TN	-	5, No. 12, pp. 1359-1361 (December 1993).
TN	-	Geib, et al., "Comparison of Fabrication Approaches for Selectively Oxidized VCSEL Arrays," Proceedings of SPIE, Vol. 3946, pages 36-40, 2000.
	/	Graf, Rudolph, <u>Modern Dictionary of Electronics</u> , 6 th ed., Indiana: Howard W. Sams & Company, 1984, p. 694.
	/	Guenter et al., "Reliability of Proton-Implanted VCSELs for Data Communications", Invited paper, <u>SPIE</u> , Vol. 2683, OE LASE 96; Photonics West: Fabrication, Testing and Reliability of Semiconductor Lasers, (SPIE, Bellingham, WA 1996).
	/	Guenter, et al., "Commercialization of Honeywell's VCSEL technology: further developments," Proceedings of the SPIE, Vol. 4286, GSPIE 2000, 14 pages.
	/	Hadley et al., "High-Power Single Mode Operation from Hybrid Ion Implanted/Selectively Oxidized VCSELs", 13th Annual Meeting IEEE Lasers and Electro-Optics Society 2000 Annual Meeting (LEOS 2000), Rio Grande, Puerto Rico, pages 804-805.
	/	Hawthorne, et al., "Reliability Study of 850 nm VCSELs for Data Communications," IEEE, pages 1-11, May 1996.
	/	Herrick, et al., "Highly reliable oxide VCSELs manufactured at HP/Agilent Technologies," Invited Paper, Proceedings of SPIE Vol. 3946, pp. 14-19, 2000.
	/	Hibbs-Brenner et al., "Performance, Uniformity and Yield of 850nm VCSELs Deposited by MOVPE", <u>IEEE Phot. Tech. Lett.</u> , Vol. 8, No. 1, pp. 7-9, January 1996.
	/	Hideaki Saito, et al., "Controlling polarization of quantum-dot surface-emitting lasers by using structurally anisotropic self-assembled quantum dots," American Institute of Physics, Appl. Phys. Lett. 71 (5), pages 590-592, August 4, 1997.
	/	Hornak et al., "Low-Temperature (10K-300K) Characterization of MOVPE-Grown Vertical-Cavity Surface-Emitting Lasers", <u>Photon. Tech. Lett.</u> , Vol. 7, No. 10, pp. 1110-1112, October 1995.
	/	Huffaker et al., "Lasing Characteristics of Low Threshold Microcavity Layers Using Half-Wave Spacer Layers and Lateral Index Confinement", <u>Appl. Phys. Lett.</u> , Vol. 66, No. 14, pp.1723-1725, April 3, 1995.
	/	Jewell et al., "Surface Emitting Microlasers for Photonic Switching & Intership Connections", <u>Optical Engineering</u> , Vol. 29, No. 3, pp. 210-214, March 1990.
	/	Jiang et al., "High-Frequency Polarization Self-Modulation in Vertical-Cavity Surface-Emitting Lasers", <u>Appl. Phys. Letters</u> , Vol. 63, No. 26, December 27, 1993, pp. 2545-2547.
	/	K.L. Lear et al., "Selectively Oxidized Vertical Cavity Surface-Emitting Lasers with 50% Power Conversion Efficiency", <u>Elec. Lett.</u> , Vol. 31, No. 3 pp. 208-209, February 2, 1995.
	/	Kash, et al., "Recombination in GaAs at the AlAs oxide-GaAs interface," Applied Physics Letters, Vol. 67, No.14, pp. 2022-2024, October 2, 1995.
	/	Kishino et al., "Resonant Cavity-Enhanced (RCE) Photodetectors", <u>IEEE Journal of Quantum</u>

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Jae-Hyun Ryou et al.	
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YN		<u>Electronics</u> , Vol. 27, No. 8, pp. 2025-2034.
YN	-	Koley B., et al., "Dependence of lateral oxidation rate on thickness of AIAs layer of interest as a current aperture in vertical-cavity surface-emitting laser structures", <u>Journal of Applied Physics</u> , Vol. 84, No. 1, pages 600-605, July 1, 1998.
	/	Kuchibhotla et al., "Low-Voltage High Gain Resonant Cavity Avalanche Photodiode", <u>IEEE Photonics Technology Letters</u> , Vol. 3, No. 4, pp. 354-356.
	/	Lai et al., "Design of a Tunable GaAs/AlGaAs Multiple-Quantum-Well Resonant Cavity Photodetector", <u>IEEE Journal of Quantum Electronics</u> , Vol. 30, No. 1, pp. 108-114.
	/	Lee et al., "Top-Surface Emitting GaAs Four-Quantum-Well Lasers Emitting at 0-85 um", <u>Electronics Letters</u> , Vol. 24, No. 11, May 24, 1990, pp. 710-711.
	/	Lehman et al., "High Frequency Modulation Characteristics of Hybrid Dielectric/AlGaAs Mirror Singlemode VCSELs", <u>Electronic Letters</u> , vol. 31, No. 15, July 20, 1995, pp. 1251-1252.
	/	Maeda, et al., "Enhanced Glide of Dislocations in GaAs Single Crystals by Electron Beam Irradiation," <u>Japanese Journal of Applied Physics</u> , Vol. 20, No. 3, pages L165-L168, March 1981.
	/	Magnusson, "Integration of Guided-Mode Resonance Filters and VCSELs", <u>Electo-Optics Research Center, Department of Electrical Engineering, University of Texas at Arlington</u> , May 6, 1997.
	/	Martinsson et al., "Transverse Mode Selection in Large-Area Oxide-Confined Vertical-Cavity Surface-Emitting Lasers Using a Shallow Surface Relief", <u>IEEE Photon. Technol. Lett.</u> , 11(12), 1536-1538 (1999).
	/	Miller et al., "Optical Bistability Due to Increasing Absorption", <u>Optics Letters</u> , Vol. 9, No. 5, May 1984, pp. 162-164.
	/	Min Soo Park and Byung Tae Ahn, "Polarization control of vertical-cavity surface-emitting lasers by electro-optic birefringence," <u>Applied Physics Letter</u> , Vol. 76, No. 7, pages 813-815, February 14, 2000.
	/	Morgan et al., "200 C, 96-nm Wavelength Range, Continuous-Wave Lasing from Unbonded GaAs MOVPE-Grown Vertical Cavity Surface-Emitting Lasers", <u>IEEE Photonics Technology Letters</u> , Vol. 7, No. 5, May 1995, pp. 441-443.
	/	Morgan et al., "High-Power Coherently Coupled 8x8 Vertical Cavity Surface Emitting Laser Array", <u>Appl. Phys Letters</u> , Vol 61, No. 10, September 7, 1992, pp. 1160-1162.
	/	Morgan et al., "Hybrid Dielectric/AlGaAs Mirror Spatially Filtered Vertical Cavity Top-Surface Emitting Laser", <u>Appl. Phys. Letters</u> , Vol. 66, No. 10, March 6, 1995, pp. 1157-1159.
	/	Morgan et al., "Novel Hibrid-DBR Single-Mode Controlled GaAs Top-Emitting VCSEL with Record Low Voltage", 2 pages, dated prior to December 29, 2000.
	/	Morgan et al., "One Watt Vertical Cavity Surface Emitting Laser", <u>Electron. Lett.</u> , Vol. 29, No. 2, pp. 206-207, January 21, 1993
	/	Morgan et al., "Producibile GaAs-based MOVPE-Grown Vertical-Cavity Top-Surface Emitting

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	Filing Date: June 27, 2003	Group Art: unknown 2828

TN	Lasers with Record Performance", <u>Elec. Lett.</u> , Vol. 31, No. 6, pp. 462-464, March 16, 1995.
TN	Morgan et al., "Progress and Properties of High-Power Coherent Vertical Cavity Surface Emitting Laser Arrays", <u>SPIE</u> , Vo. 1850, January 1993, pp. 100-108.
	Morgan et al., "Progress in Planarized Vertical Cavity Surface Emitting Laser Devices and Arrays", <u>SPIE</u> , Vol. 1562, July 1991, pp. 149-159.
	Morgan et al., "Spatial-Filtered Vertical-Cavity Top Surface-Emitting Lasers", <u>CLEO</u> , 1993, pp. 138-139.
	Morgan et al., "Submilliamp, Low-Resistance, Continuous-Wave, Single-Mode GaAs Planar Vertical-Cavity Surface Emitting Lasers", Honeywell Technology Center, June 6, 1995.
	Morgan et al., "Transverse Mode Control of Vertical-Cavity Top-Surface Emitting Lasers", <u>IEEE Photonics Technology Letters</u> , Vol. 4, No. 4, April 1993, pp. 374-377.
	Morgan et al., "Vertical-cavity surface-emitting laser arrays", Invited Paper, <u>SPIE</u> , Vol. 2398, February 6, 1995, pp. 65-93.
	Morgan et al., "Vertical-cavity surface emitting lasers come of age, Invited paper, <u>SPIE</u> , Vol. 2683, 0-8194-2057, March 1996, pages 18-29.
	Morgan, "High-Performance, Producibile Vertical Cavity Lasers for Optical Interconnects", <u>High Speed Electronics and Systems</u> , Vol. 5, No. 4, December 1994, pp. 65-95.
	Naone R.L., et al., "Tapered-apertures for high-efficiency miniature VCSELs", <u>LEOS newsletter</u> , Vol. 13, No. 4, pages 1-5, August 1999.
	Nugent et al., "Self-Pulsations in Vertical-Cavity Surface-Emitting Lasers", <u>Electronic Letters</u> , Vol. 31, No. 1, January 5, 1995, pp. 43-44.
	Oh, T. H. et al., "Single-Mode Operation in Antiguided Vertical-Cavity Surface-Emitting Laser Using a Low-Temperature Grown AlGaAs Dielectric Aperture", <u>IEEE Photon. Technol. Lett.</u> 10(8), 1064-1066 (1998).
	Osinski, et al., "Temperature and Thickness Dependence of Steam Oxidation of AIAs in Cylindrical Mesa Structure," <u>IEEE Photonics Technology Letters</u> , Vol. 13, No. 7, pages 687-689, July 2001.
	Peck, D. Stewart, "Comprehensive Model for Humidity Testing Correlation, <u>IEEE/IRPS</u> , pp. 44-50, 1986.
	Ries, et al., "Visible-spectrum ($\lambda = 650\text{nm}$) photopumped (pulsed, 300 K) laser operation of a vertical-cavity AIAs-AlGaAs/InAlP-InGaP quantum well heterostructure utilizing native oxide mirrors," <u>Applied Physics Letters</u> , Vol. 67, No. 8, pages 1107-1109, August 21, 1995.
	S.S. Wang and R. Magnusson, "Multilayer Waveguide-Grating Filters", <u>Appl. Opt.</u> , Vol. 34, No. 14, pp. 2414-20, 1995.
	S.S. Wang and R. Magnusson, "Theory and Applications of Guided-Mode Resonance Filters", <u>Appl. Opt.</u> , Vol. 32, No. 14, pp. 2606-13, 1993.

Page 12 of 13 <div style="text-align: center;"> FORM PTO-1449 NOV 28 2003 U.S. PATENT & TRADEMARK OFFICE </div>	Atty. Docket No.: H0004788 (1139.1138101)	Serial No.: 10/607,758
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Jae-Hyun Ryou et al.	
	Filing Date: June 27, 2003	Group Art: unknown <i>UN</i>

TN	✓	Sah, et al., "Carrier Generation and Recombination in <i>P-N</i> Junctions and <i>P-N</i> Junction Characteristics," Proceedings of the IRE, pages 1228-1243, September, 1957.
/	✓	Schubert, "Resonant Cavity Light-Emitting Diode", <u>Appl. Phys. Lett.</u> , Vol. 60, No. 8, pp. 921-923, February 24, 1992.
/	✓	Shi, et al., "Photoluminescence study of hydrogenated aluminum oxide-semiconductor interface," <u>Applied Physics Letters</u> , Vol. 70, No. 10, pages 1293-1295, March 10, 1997.
/	✓	Smith, R.E. et al., "Polarization-Sensitive Subwavelength Antireflection Surfaces on a Semiconductor for 975 NM, <u>Optics Letters</u> , Vol. 21, No. 15, August 1, 1996, pp. 1201-1203.
/	✓	Spicer, et al., "The Unified Model For Schottky Barrier Formation and MOS Interface States in 3-5 Compounds," <u>Applications of Surface Science</u> , Vol. 9, pages 83-01, 1981.
/	✓	Suning Tang et al., "Design Limitations of Highly Parallel Free-Space Optical Interconnects Based on Arrays of Vertical Cavity Surface-Emitting Laser Diodes, Microlenses, and Photodetectors", <u>Journal of Lightwave Technology</u> , Vol. 12, No. 11, November 1, 1994, pp. 1971-1975.
/	✓	T. Mukaihara, "Polarization Control of Vertical-cavity Surface-Emitting Lasers by a Birefringent Metal/Semiconductor Polarizer Terminating a Distributed Bragg Reflector," Tokyo Institute of Technology, Precision and Intelligence Laboratory, pages 183-184.
/	✓	Tao, Andrea, "Wet-Oxidation of Digitally Alloyed AlGaAs," National Nanofabrication Users Network, Research Experience for Undergraduates 2000, 2 pages.
/	✓	Tautm, et al., "Commercialization of Honeywell's VCSEL Technology, Published in Proceedings fo the SPIE, Vol. 3946, SPI, 2000, 12 pages.
/	✓	Tshikazu Mukaihara, et al., "A Novel Birefringent Distributed Bragg Reflector Using a Metal/Dielectric Polarizer for Polarization Control of Surface-Emitting Lasers," <u>Japan J. Appl. Phys.</u> Vol. 33 (1994) pages L227-L229, Part 2, No. 2B, February 15, 1994.
/	✓	Tu, Li-Wei et al., "Transparent conductive metal-oxide contacts in vertical-injection top-emitting quantum well lasers", <u>Appl. Phys. Lett.</u> 58 (8) 25 February 1991, pages 790-792.
/	✓	Wieder, H.H., "Fermi level and surface barrier of $Ga_xIn_{1-x}As$ alloys," <u>Applied Physics Letters</u> , Vol. 38, No. 3, pages 170-171, February 1, 1981.
/	✓	Wipiejewski, et al., "VCSELs for datacom applications," Invited Paper, Part of the SPIE Conference on Vertical-Cavity Surface-Emitting Lasers III, San Jose, California, SPIE Vol. 3627, pages 14-22, January 1999.
/	✓	Y. M. Yang et al., "Ultralow Threshold Current Vertical Cavity Surface Emitting Lasers Obtained with Selective Oxidation", <u>Elect. Lett.</u> , Vol. 31, No. 11, pp. 886-888, May 25, 1995.
/	✓	Yablonovitch et al., "Photonic Bandgap Structures", <u>J. Opt. Soc. Am. B.</u> , Vol. 10, No. 2, pp. 283-295, February 1993.
/	✓	Young et al., "Enhanced Performance of Offset-Gain High Barrier Vertical-Cavity Surface-Emitting Lasers", <u>IEEE J. Quantum Electron.</u> , Vol. 29, No. 6, pp. 2013-2022, June 1993.

FORM PTO-1449 Page 13 of 13	Atty. Docket No.: H0004788 (1139.1138101)	Serial No.: 10/607,758
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Jae-Hyun Ryou et al.	
	Filing Date: June 27, 2003	Group Art: unknown 2022

TN	✓	U.S. Patent Application Serial No. 09/751,422, filed December 29, 2000, entitled "Resonant Reflector for Use with Optoelectronic Devices".
1	✓	U.S. Patent Application Serial No. 09/751,423, filed December 29, 2000, entitled "Spatially Modulated Reflector for an Optoelectronic Device".

EXAMINER: <i>Tuan Nguyen</i>	DATE CONSIDERED: 5/10/05
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.